



Substitute Specification
Attorney Docket No. 034896-0126
Dahlia Plant Named 'Bounty'
Inventor: Jan Skjold Knudsen

DAHLIA PLANT NAMED 'BOUNTY'

Genus and species of the plant claimed:

Dahlia (hybrid)

5 Variety denomination:

Bounty

BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct cultivar of *Dahlia* plant, botanically known as a *Dahlia* (hybrid), and hereinafter referred to by the name 10 'Bounty'. The new cultivar 'Bounty' is a product of a planned breeding program and was selected by the Inventor, Jan Skjold Knudsen, in Fyn, Denmark. The new cultivar 'Bounty' originated from a cross made by the Inventor between the *Dahlia* cultivar designated 'Tonga' (unpatented) as the female parent and the *Dahlia* cultivar designated 'Malaysia' (unpatented) as the male parent.

15 Asexual reproduction by cuttings of the new variety in Fyn, Denmark has demonstrated that the combination of characteristics as described herein for 'Bounty' are firmly fixed and are retained through successive generations of asexual reproduction. The new variety reproduces true to type.

BRIEF DESCRIPTION OF THE INVENTION

20 'Bounty' has not been tested under all available environmental conditions and the phenotype may vary with variations in environmental conditions such as temperature, light intensity, day length and humidity, without a change in genotype of the plant.

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'Bounty'. The following characteristics in combination distinguish 'Bounty' as a new and distinct cultivar:

1. White ray floret color, RHS 155A;
- 5 2. Compact plant habit; and
3. Vigorous growth habit.

Side-by-side comparisons between the new *Dahlia* cultivar 'Bounty' and the parental cultivars, 'Tonga' and 'Malaysia', were conducted by the Inventor in Fyn, Denmark. 'Bounty' differs from the female parental cultivar, 'Tonga', primarily in ray floret color. 'Bounty' has white ray florets, RHS 155A, whereas the ray floret color of 'Tonga' is gray-red, RHS 181C to gray-yellow, RHS 161A. 'Bounty' differs from the male parental cultivar, 'Malaysia', primarily in ray floret color and inflorescence size. 'Bounty' has white ray florets, RHS 155A, whereas the ray floret color of 'Malaysia' is red-purple, RHS 63B to 63C. 'Bounty' has an inflorescence diameter of 7-8 cm, 15 whereas the inflorescence diameter of 'Malaysia' is 6.5 cm.

Of the commercial cultivars known to the Inventor, the most similar in comparison to 'Bounty' is the female parental cultivar, 'Tonga'

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying color photographs illustrate the overall appearance and 20 details of inflorescence form color and structures of the new cultivar, showing the colors as true as it is reasonably possible to obtain in color reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the

detailed botanical description, which accurately describe the actual colors of the new *Dahlia*.

The first photograph is a side view of a typical flowering plant of 'Bounty' as grown in an 11 cm pot. The second photograph is a top view of a typical flowering 5 plant of 'Bounty'. The third photograph is a close-up of the inflorescence of 'Bounty'.

DETAILED BOTANICAL DESCRIPTION

The following observations, measurements and values describe plants grown under commercial conditions. Plants described were 12 to 14 weeks old, and were 10 grown in a greenhouse in Fyn, Denmark with average day temperatures of 18 °C to 25 °C, and night temperature of 16 °C. All color references are measured against the Royal Horticultural Society (RHS) Colour Chart. Colors are approximate as color depends on horticultural practices such as light level and treatment rate, among others, without however any variance in genotype.

15 PLANT:

Form: Globular, upright

Height: 20 cm

Spread: 20 cm

Natural flowering season: Summer to fall

20 Crop time: After rooting, about 10 - 12 weeks are required to produce finished flowering plants in 11 cm pots

Plant vigor: Vigorous

Root structure: Fibrous

Stem: Yellow-green RHS 144; diameter 10-12 mm

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Lateral branches: 5 – 6 in quantity; 7-10 mm diameter; 14 cm in length

(including inflorescence) color: yellow-green,

RHS 144C

Internode length: 3 cm

5 Foliage:

Leaflets:

Quantity: 4 – 5 pairs per lateral branch

Arrangement: Opposite, decussate

Length: Up to 16 cm

10 Width: 14 cm

Shape: Elliptical, acuminate tip, decurrent base, crenate margin

Texture: Glabrous

Color: Young leaf upper side green RHS N134A; young leaf under side gray-green RHS 189C; mature leaf upper side RHS

15 N134A; mature leaf under side RHS 189C

Venation: Upper side RHS 135C; under side RHS 144A

Petiole: 3 – 4 cm length, 4 – 6 mm diameter, color RHS 144A

INFLORESCENCE:

Arrangement: Composite inflorescences in leaf axils

20 Inflorescence type: Capitulum

Inflorescence height: 3 – 4 cm

Inflorescence width: 7 – 8 cm

Flowering habit: Upright

Quantity of inflorescences: 2 per lateral stem

Inflorescence longevity: 7 days on the plant

Bud:

Quantity: 2-3 per lateral stem (buds continue to develop when dead
flowers are removed)

5 Shape: Globular

Size: Up to 2 cm in length, 1 cm diameter

Color: RHS 144C

Florets:

Appearance: Disc, tubular to single, fused floret; ray, involute to
10 almost tubular, not fused

Shape: Disc, lanceolate; ray oval, involute

Number: Disc, 5 fused; ray, 5 fused; with about 20 disk florets and 70
ray florets per capitulum (depending on light and temperature
conditions)

15 Length: Disc 3 mm, ray 15 – 30 mm

Width: Disc 4 mm, ray 20 – 24 mm

Diameter: Disc 2-3 mm

Margin: (Disk and ray) Entire

Apex: (Disk and ray) Rounded

20 Color: Disc, transparent showing yellow-orange, RHS 17A, anthers;
Ray, white RHS 155 A, both surfaces, both mature and
immature; when withering, slight yellow-green, RHS 150D, at
base

Phyllaries:

Length: 4 mm
Width: 4 mm
Margin: Entire
5 Base: Fused
Apex: Rounded
Color: Immature upper side: yellow-green, RHS 144D to , yellow-green, RHS 150D; immature under side: yellow-green, RHS 144C; mature upper side: yellow-green, RHS 144D to yellow-green, RHS 150D, at tips and grey-green, RHS 191B at base;
10 mature under side grey-green, RHS 191B
Calyx: 4 mm length, 13 mm diameter
Peduncle: 4 cm length, 3 mm diameter; strength: strong; color RHS N144D with stripes of RHS 141A
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Reproductive organs:

Androecium:

Location: Disk florets only
Anthers: 4 mm in length, RHS 23B
20 Pollen: RHS 14A

Gynoecium:

Location: Disk and ray florets
Pistils: 1 per ray floret and 1 per disk floret, 12 mm length
Style: 8 mm length, RHS 1B

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Ovary: RHS 150B

Temperature tolerance: High tolerance to 35 °C; low tolerance to 0 °C